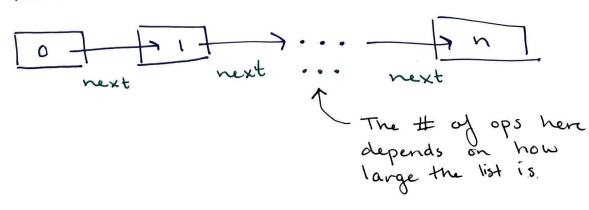
An array consists of fixed, pre-allocated, contiguous memory when an array is created, the variable we assign the array to essentially gives us the "start" of an array, and an index tells us how for offset from the start we should look. It is just a matter of adding that Index to the address of the array head.

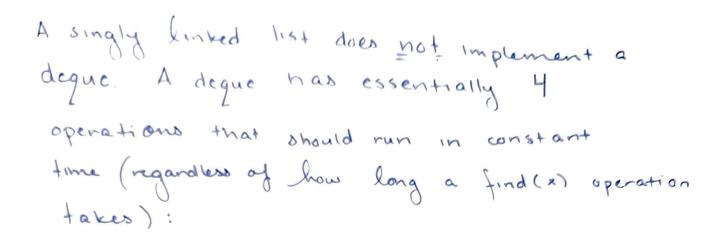
START			
block O	black 1	 block	n
		1	,
	a[n]		

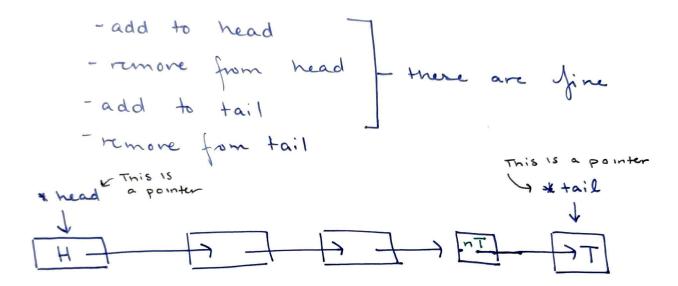
address of a [0] + n blocks

the only necessary operation
here; constant

A linked list consists of dynamic, distributed memory. If we want to find an element, we don't have its address saved and can't easily calculate it. We must follow the "trail" from the start to the final value we want.





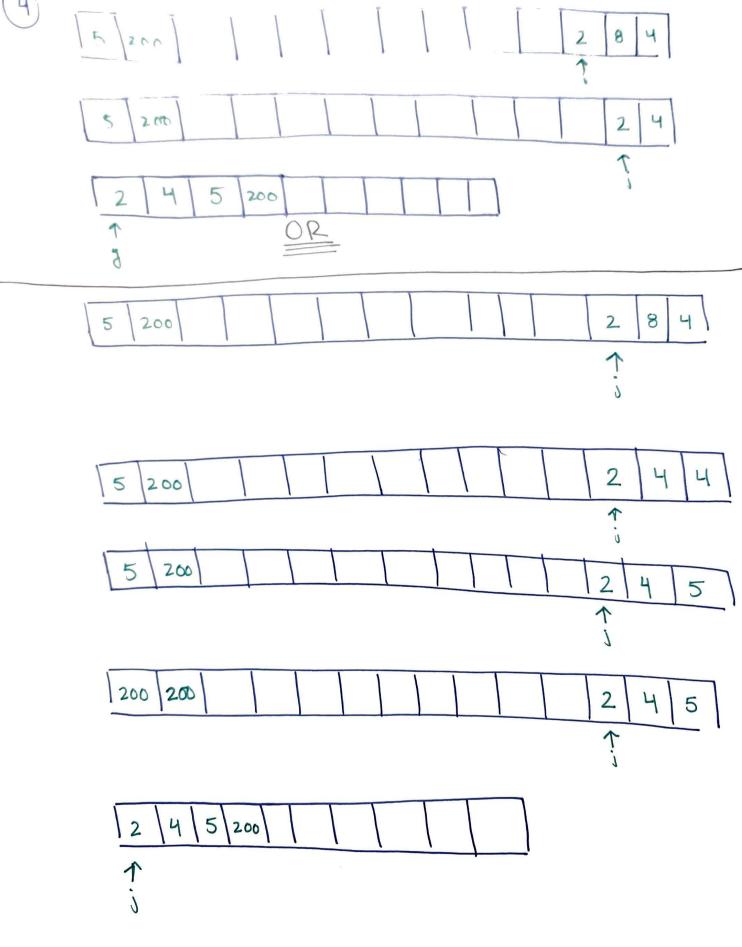


Removing T is fine because of the tail ptr but we have to move *tail to nT. We have to traverse the list to find this node's address; there is no short cut backwards. Any of the following:

- You want to handle sequential data and preserve sequence

- You want to use a simple data structure and don't care about trying to go "backwards"
- You want to remove from the middle while using an array this is slightly easier for array-based queue as we implement it
- You want to model some system that you describe in your answer

Specific cases of this general case.



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